

# **BIOLOGICAL RESOURCES REPORT VAN DE VEGTE MAJOR SUBDIVISION TM 5243; LOG 01-02-003**

**November 7, 2008**

Prepared by Clinton Powell

Revised by Lorrie Bradley and Martha Heath, Department of Planning and Land Use  
(DPLU) staff biologists (2002)

Subsequent revisions by Valerie Walsh, DPLU staff biologist (2008)

## **1.0 SUMMARY**

### **1.1 Purpose**

The subject project is for a proposed Tentative Map located in Fallbrook, California. The said project proposes seven lots on a 14.2-acre property. The project proposes water to be provided by the Fallbrook Utility District and septic systems for each lot.

Clinton Powell conducted biological surveys from May to October 2001 and a biology report was received in August 2002. Lorrie Bradley and Martha Heath of San Diego County Department of Planning and Land Use (DPLU) revised the biology report in December 2002. A subsequent biological survey was conducted in November 2007, and revisions and updates were made to the previous report in December 2007 and July 2008 by Valerie Walsh from San Diego County DPLU.

### **1.2 Project Location and Description**

The project site is located at 495 Beavercreek Lane, approximately 3.0 miles west of Interstate 15, in the unincorporated Community of Fallbrook, County of San Diego (Bonsall USGS 7.5' Quadrangle). Assessor Parcel Numbers are 105-640-79, 71. The location of the property is shown on Figure 1 and 2. A San Diego County Capital Improvement Project (CIP) is proposed onsite and will extend Fallbrook Street, bisecting the property from the south to the west in a northwest direction. The project is surrounded by single-family residences to the north, northwest, east, and southeast. Blue-line tributaries to the San Luis Rey River are located along the eastern boundary and the southwestern corner of the property. The property ranges from 690 to 760 feet above mean sea level. According to the Soil Survey of San Diego (Bowman 1973) the soils onsite include: Fallbrook sandy loam, 5-9 percent slopes (FaC), Placentia sandy loam, 2-9 percent slopes (PeC), Placentia sand loam thick surface (PfC), 2-9 percent slopes, and Steep gullied land (StG).

Open space easements were dedicated in 1997 and 1998 by Tentative Parcel Map (TPM) 20306 and 20359, respectively. TPM 20306 designated biological open space over the eastern portion of proposed Lots 3, 4, and 5 and the southwestern portion of proposed Lot 7. This biological open space easement includes blue-line tributaries to the San Luis Rey River and is supported by southern coast live oak riparian forest. TPM 20359 designated open space over portions of proposed Lots 1, 2, 6, 7, and 8. As stated in the Negative Declaration for TPM 20359 the biological open space easement was created to "preserve possible biological resources" and would provide "a corridor through the project that will allow wildlife connections to the south and north. This open space easement has been historically disturbed by agricultural activities.

### **1.3 Survey Methodologies**

The project site was surveyed by Clint Powell in 2001 with subsequent surveys by DPLU staff biologist Valerie Walsh in November 2007 on the following dates:

<b>Table 1</b>					
<b>Field Surveys on the Van de Vegte Property</b>					
Date	Time	Survey	Temperature (°F)	Sky	Name
5/3/2001	8:00 - 11:00	general survey	72	--	Clinton Powell
6/23/2001	7:00 - 11:00	general survey	65	--	Clinton Powell
7/8/2001	5:00 - 9:00	surveyed proposed Lot 9	78	sunny	Clinton Powell
9/6/2001	5:00 - 9:00	sensitive species survey	78	clear	Clinton Powell
10/23/2001	8:00 - 11:00	wetland delineation, Stephen's kangaroo rat and raptor survey	72	cloudy	Clinton Powell
11/27/2007	10:00 - 12:00	RPO wetland delineation and general survey	70	clear	Valerie Walsh

Surveys, habitat and species identification were noted in the field. Geographic Information System (GIS) mapping applications were conducted at the Department of Planning and Land Use (DPLU) following the County of San Diego Guidelines for Determining Significance and Report Format and Content Requirements for Biological Resources. Reference materials include Rebman and Simpson Checklist of the Vascular Plants of San Diego County (2006), James Lightner San Diego County Native Plants (2006), The Plant Book – An Encyclopedia of Worldwide Flora (2001), Peterson Field Guide for Western Birds (1990), and National Audubon Society Field Guide to North American Reptiles and Amphibians, and Mammals (1995 and 1994, respectively).

## **1.4 Existing Biological Resources**

### **1.4.1 Habitat Types**

Six vegetation categories were found on the site: southern coast live oak riparian forest, coast live oak woodland, non-native grassland, non-native vegetation, orchard, and developed land. Table 2 summarizes the habitats and acreage calculations on the Van de Vegte property. A Biological Resources Map shows the following habitats on the property (Figure 3).

Table 2  
Summary of Habitats located on the Van de Vegte Property

Habitat	Existing (acres)
Southern coast live oak riparian forest	4.20
Coast live oak woodland	0.51
Non-native grassland	5.51
Non-native vegetation	0.48
Orchard	1.50
Urban/developed	2.00
<b>TOTAL</b>	<b>14.20</b>

**Southern Coast Live Oak Riparian Forest - Holland code 61310 (4.20 acres)**

The southern coast live oak riparian forest occurs on the southwestern corner and eastern portions of the project property and is associated with a blue-line tributary to the San Luis Rey River. This area is dominated by coast live oak trees (*Quercus agrifolia*). Other species include sycamore (*Platanus racemosa*), black willow (*Salix goodiingii*), arroyo willow (*Salix lasiolepis*), mulefat (*Baccharis salicifolia*), eucalyptus (*Eucalyptus* sp.), and ragweed (*Ambrosia psilostachya*). This habitat is dedicated in an existing biological open space easement created by TPM 20306 in 1997.

**Coast Live Oak Woodland – Holland Code 71160 (0.51-acre).**

The coast live oak woodland is centrally located on the project property and is associated with an upland drainage that intermittently feeds into the tributary to the south. This area has been historically disturbed from agriculture. Remnant coast live oak trees and associate upland species such as coffeeberry (*Rhamnus californica*), toyon (*Hetermoles arbutifolia*), olive (*Olea europaea*), peppertree (*Schinus molle*), brome grasses (*Bromus* sp.), and occasional black sage (*Salvia mellifera*), coastal sage scrub (*Artemisia californica*), and monkey flower (*Mimulus aurantiacus*) occupy this area. This isolated upland area is dedicated in an existing biological open space easement created by TPM 20359 in 1998.

In addition, a mature cluster of coast live oak trees remain in the eastern portion of the site and is separated from the adjacent southern coast live oak riparian habitat by a sewer pipeline.

**Non-native Grasslands - Holland code 42200 (5.51 acres).**

The majority of the property is occupied by non-native grassland habitat. This area has been historically disturbed from the planting of citrus trees and possibly other fruit-bearing trees. In addition, the proximity of the drainages in addition to the presence of remnant oak trees, coffeeberry, and laurel sumac (*Malosma laurina*) trees indicate that this area was historically part of a coast live oak woodland, as described in the Preliminary Descriptions of the Terrestrial Natural Communities of California (Robert F. Holland, 1986).

Presently the non-native grassland is dominated by herbaceous, non-native species of filaree (*Erodium* sp.), tocolote (*Centaurea melitensis*), foxtail chess (*Bromus madritensis*), and wild oats (*Avena* sp.).

**Non-native Vegetation – Holland Code 11000 (0.48 acre)**

The non-native vegetation onsite consists of eucalyptus (*Eucalyptus* sp.) located west of the existing houses and north of the property. Giant reed grass (*Arundo donax*) also persists within this habitat type.

**Orchard – Holland Code 18100 (1.50 acres)**

Olive trees persist in the northwestern portion of the property and are within the orchard.

**Urban/Developed - Holland code 12000 (2.00 acres).**

The existing house, garage area, driveways and landscaping are located in the northeastern section of the property and is considered urban/developed land.

**1.4.2 Plants**

A list of plant species are compiled in Appendix A.

**1.4.3 Wildlife**

A list of wildlife species are compiled in Appendix B.

**1.4.4 Sensitive Species**

No sensitive plants and three San Diego County sensitive birds were observed onsite. The following summarizes the status of these species:

Cooper's hawk (*Accipiter cooperi*)

County status: Group 1 species

Federal status: None

State status: None

On site status: One individual was seen on the October 23, 2001 survey in the pine trees in the southwestern portion of proposed Lot 7.

Red-shouldered hawk (*Buteo lineatus*)

County status: Group 1 species

Federal status: None

State status: None

On site status: On the July 8, 2001 survey and on the October 23, 2001 survey, two red-shouldered hawks were noted feeding in the southwestern portion of proposed Lot 7.

Western bluebird (*Sialia mexicana*)

County status: Group 2 species

Federal status: None

State status: None

#### **1.4.4 Wetlands/Jurisdictional Waters**

##### Army Corps of Engineers (ACOE)

The existing biological open space easement located in the southern coast live oak riparian forest is an ACOE Waters of the U.S. because it is a blue-line tributary to the San Luis Rey River. These areas are to remain in perpetuity within the existing open space easement and will not be impacted.

The centrally-located coast live oak woodland is not an ACOE Waters of the U.S. or ACOE wetland because it is not connected to the larger southwestern drainage. It also lacks hydrophytic vegetation.

##### California Department of Fish and Game (CDFG)

The existing biological open space easement located in the southern coast live oak riparian forest is CDFG jurisdictional because there is a defined bed and bank located within southern coast live oak riparian forest habitat and the drainage is connected to downstream drainages and drainage systems. These areas are to remain in perpetuity within the existing open space easement and will not be impacted.

The centrally-located coast live oak woodland may be subject to a CDFG Streambed Alteration Agreement. Even though the habitat is disturbed in quality and is disconnected from other drainage systems this area does possess some form of bed and bank that remains underneath the oak canopy.

##### Resource Protection Ordinance (RPO)

The existing biological open space easements located in the southern coast live oak riparian forest (southwestern corner and eastern portion) will remain in perpetuity as a biological open space easement. No impacts are proposed for these areas. The existing easements encompass a 50 foot or more wetland buffer (to the limit of the oak trees) from all RPO jurisdictional drainages.

The centrally-located coast live oak woodland is not a County RPO wetland because it is not connected to the larger southwestern drainage. It also lacks hydrophytic vegetation.

#### **1.4.5 Wildlife Corridors**

The blue-line tributary located in the southwestern corner and eastern boundary are good local wildlife corridors because the tree canopy provides cover for wildlife, including large mammals. This area provides movement of wildlife species where they can live, hide, and reproduce without the establishment human development.

The project site does not support substantial regional movement of wildlife with the establishment of existing development to the north, south, east, and west.

## **2.0 PROJECT IMPACTS**

The proposed project will impact coast live oak woodland, non-native grassland, non-native vegetation, and an orchard. Project impact calculations include proposed houses,

driveways, grading pads and fire clearing. All proposed grading for the extension of Fallbrook Street is considered impact neutral because it is Capital Improvement Project (CIP) for San Diego County, as well as an existing water line easement to be abandoned that is encompassed by the existing eastern biological open space easements. The project does not propose any offsite impacts. All areas depicted in Figure 4 that is outside of the existing open space easements is considered impacted by the proposed project.

## **2.1 Sensitive Habitats**

### **Southern coast live oak riparian forest**

The southern coast live oak riparian forest located in the southwestern and eastern portions of the project site is considered sensitive and is dedicated in an existing open space easement per TPM 20306. There is no proposed grading or construction in this area. In addition, a limited building zone of 70 feet as approved by the local fire district will protect the existing open space easement from future fire clearing around the proposed structures (Figure 5). An existing water easement is to be abandoned along the eastern portion and will be considered impact neutral. This habitat type will not be directly impacted from the establishment of TM 5243.

### **Coast live oak woodland**

The coast live oak woodland that is centrally located on the project site is considered sensitive and substantially dedicated in an existing open space easement per TPM 20359. There is no proposed grading or construction in this area. In addition, a limited building zone of 50 feet as approved by the local fire district will protect the existing open space easement from future fire clearing around the proposed structures. The project proposes a 50 foot limited building zone from the edge of the existing open space easement because of the degraded quality of this centrally located open space easement (Figure 5).

Approximately 0.17-acre of coast live oak woodland habitat will be impacted with the implementation of this project because this habitat type is located within the proposed private driveways for lots 7 and 8 and the limited building zone.

### **Non-native grassland**

Approximately 3.91 acres of non-native grassland will be impacted as a result of this project. Of the total, approximate 5.11 acres, 1.2 acres will be impacted from the CIP project to extend Fallbrook Street and is considered impact neutral.

## **2.0 Sensitive Wildlife**

Three sensitive birds were observed onsite: Cooper's hawk, red-shoulder hawk, and western bluebird. These species may be indirectly impacted from implementation of the project because the non-native grassland habitat may provide adequate foraging for the sensitive raptors. Other indirect impacts include noise from construction which may affect sensitive birds during breeding season. Project development would not hinder the survival of Group 1 animal species.

## 2.3 Wildlife Corridors and Nursery Sites

TM 5243 will perpetuate the existing biological open space easements along the southwestern and eastern (southern coast live oak riparian forest) portions of the property potentially serves as a local wildlife corridor and/or nursery sites for smaller mammals, birds, reptiles, and amphibians because the tree canopy, shrubs, and herbaceous cover provide hiding, resting, and nesting areas. In addition, the southern coast live oak riparian forest is connected to adjacent properties supporting like functioning linear habitat, allowing local movement of species within the drainage system(s). It is important to note the proximity of existing homes, surrounding development, and the proposed Fallbrook Street extension has and will limited wildlife movement from a regional perspective.

## 2.4 Cumulative Impacts

The development of coast live oak woodland and non-native grassland habitat onsite will contribute to the cumulative loss of these habitats and the species that survive within these communities.

## 3.0 MITIGATION REQUIREMENTS AND RECOMMENDATIONS

Table 3 summarizes the existing habitats, impacts and mitigation requirements for TM 5243.

Table 3						
Habitat Communities, Impact and Mitigation Calculations						
Habitat	Existing (acres)	Preserved Onsite (acres)	Impact Neutral (acres) Fallbrook Street extension and existing water line to be abandoned	Total TM 5243 Impacts (acres)	Mitigation Ratio	Offsite Mitigation (acres)
southern coast live oak riparian forest	4.20	4.02	0.18	0.00	3:1	0.00
coast live oak woodland	0.51	0.34	n/a	0.17	3:1	0.51
non-native grassland	5.51	0.40	1.20	3.91	0.5:1	1.96
non-native vegetation	0.48	0.30	n/a	0.18	0.00	n/a



Table 3						
Habitat Communities, Impact and Mitigation Calculations						
Habitat	Existing (acres)	Preserved Onsite (acres)	Impact Neutral (acres) Fallbrook Street extension and existing water line to be abandoned	Total TM 5243 Impacts (acres)	Mitigation Ratio	Offsite Mitigation (acres)
orchard	1.50	0.00	0.10	1.40	0.00	n/a
urban/developed	2.00	0.00	n/a	2.00	0.00	n/a
<b>TOTAL</b>	<b>14.20</b>	<b>5.06</b>	<b>1.48</b>	<b>7.66</b>		<b>2.46</b>

### 3.1 Sensitive Habitats

#### **Southern coast live oak riparian forest (3:1 ratio)**

The southern coast live oak riparian forest located in the southwestern and eastern portions of the project property will be left in perpetuity in the existing biological open space easement. No habitat mitigation is required for these areas. Please note the existing water line easement located in the eastern portion of the property will be abandoned and is not considered part of the existing biological easement. This area is considered impact neutral as it is surrounded by existing easements that will be protected from indirect impacts from temporary and permanent fencing and permanent signs. In addition a 70 foot limited building zone as required by the local fire department, temporary and permanent fencing, and signage will help protect this habitat and existing open space easements from future fire clearing around proposed structures and indirect impacts created by edge effects. See Figure 6 for the Open Space Fencing and Signage Exhibit.

#### **Coast live oak woodland (3:1 ratio)**

Onsite impacts to the 0.17-acre of coast live oak woodland habitat that is not located within the centrally located existing easement will be reduced through the offsite purchase of 0.51-acre of coast live oak woodland habitat located in the Northern Foothills Eco-region.

#### **Non-native grassland (0.5:1 ratio)**

Approximately 3.91 acres (does not include Fallbrook Street impact neutral areas) of non-native grassland habitat will be impacted. Approximately 1.96 acres will be mitigated offsite with the purchase of non-native grassland or habitat of similar function and value in the Northern Foothills Eco-region.

### **3.2 Sensitive Resources**

Project impacts to the Cooper's hawk, red-shouldered hawk, and western bluebird will be reduced through offsite habitat mitigation and the purchase of non-native grassland or like-functioning habitat. Impacts to potentially occurring plants and wildlife will also be reduced through offsite habitat mitigation. In addition, grading and clearing activities will be avoided during raptor and migratory bird breeding season.

### **3.3 Wildlife Movement and Nursery Sites**

Potential direct and indirect impacts to wildlife corridors and nursery sites will be mitigated by placing a limited building zone easement, temporary and permanent fencing, and signage along the existing southwestern, eastern, and central biological open space easements in addition to the purchase of offsite habitat mitigation. See Figures 3 and 4 for the Open Space Exhibit and the Open Space Fencing and Signage Exhibit.

### **3.4 Cumulative**

Cumulatively considerable impacts will be mitigated through the purchase of offsite habitat and the designation of a limited building zone intended to protect the existing biological open space easements. Cumulative impacts to coast live oak woodland and non-native grassland habitat will be mitigated through the purchase of offsite habitat that will contribute to habitat of higher quality that is contiguous to undeveloped, native habitat.

## 4.0 REFERENCES

American Ornithologists Union. 1989. Thirty seventh supplement to the American Ornithologists' Union Checklist of North American Birds. *The Auk* 106(3):532-538.

A.O.U. Check-list of North American Birds (7th edition, 1998)

Atwood, J. 1980. The United States Distribution of the California black-tailed gnatcatcher. *Western Birds* 11:2 (65-78).

Beauchamp, R.M. 1986. A flora of San Diego County. Sweetwater River Press. 241 pp.

Bond, S. I. 1977. An annotated list of the Mammals of San Diego County, California. *Transactions of the San Diego Society of Natural History*. Vol. 18, No.14. 1977.

California Native Plant Society's Inventory of Rare & Endangered Vascular Plants of California. Feb. /Special Publications No.1/Sixth Edition.

California Dept. of Fish & Game. 1990. Designated Endangered or Rare Plants. Summary list from Section 1904, Fish and Game Code. State of California Resources Agency, Sacramento, California.

CDF&G. October 2007. Special Animals. Natural Diversity Data Base.

Thomas C. Emmel & John Enunel.1973 .The Butterflies of Southern California

Everett, W .T .1979. Threatened, Sensitive and Declining Bird Species of San Diego County. *San Diego Audubon Society Sketches* 29(10):2-3.

Hickman, J.C. 1993. The Jepson Manual. Higher Plants of California. University of California Press.

Holland, R f. 1986. Preliminary Descriptions of Terrestrial Natural Communities of California. State of California. The Resources Agency.

Ingles, L. G. 1965. Mammals of the Pacific States. Stanford University Press. Stanford, California.

Jennings, M.R. 1982. An Annotated Checklist of the Amphibians and Reptiles of California. California Dept. of Fish and Game. 69(3):131-171.

Jepson, W.L., 1975. A Manual of the Flowering Plants of California. 1238 pages.

Jones, J.K. Jr. et al. 1983. Revised Checklist of North American Mammals North of Mexico. Occasional Papers of the Museum of Texas Tech University.

McMinn, H. E. 1974. An Illustrated Manual of California Shrubs. University of California Press. 663 pages.

Munz, P.A. 1974. A Flora of Southern California. University of California Press. 1086 pages.

Mynah. The Plant Book – An Encyclopedia of Worldwide Flora. 2001.

National Audubon Society Field Guide to North American Mammals. Chanticleer Press. 1994.

National Audubon Society Field Guide to North American Mammals. Chanticleer Press. 1995.

National Geographic Field Guide to the Birds of North America, Third Edition.

Peterson, R.T. 1990, A Field Guide to Western Birds. Houghton Mifflin Company. 1990.

San Diego Herpetological Society (SDHS). 1980. Survey and Status of Endangered and Threatened Reptiles Natively Occurring in San Diego County. Fish and Wildlife Committee, San Diego Dept. of Agriculture.

Roberts, Fred M. Jr. 1995. The Oaks of Southern Californian Floristic Province. F.M. Roberts Publications Encinitas, California.

Simpson, Michael G., and Jon P. Rebman. 2006. Checklist of the Vascular Plants of San Diego County. SDSU I Herbarium Press.

Sloan, A.J. 1964. Amphibians of San Diego County. Occasional Papers of the San Diego Society of Natural History, Number 13.

Stebbins, R.C. 1966. A Field Guide to Western Reptiles and Amphibians. Houghton Mifflin Company, Boston.

Tate, J.R. Jr., 1986. The Blue List for 1986. American Birds 40 (2): 227-236. California.

U.S. Fish and Wildlife Service. February 1990. Endangered and Threatened Wildlife and Plants; Plant Notice of Review. Federal Register CFR, Part 17. U.S. Dept. of the Interior.

Unitt, P. 1984. The Birds of San Diego County. San Diego Society of Natural History, Memoir 13.

Withham, Helen. 1972. The Ferns of San Diego County. John Porter Dexter Memorial Publications. The San Diego Society of Natural History.

**Appendix A**  
**List of Plant Species Observed on the Van de Vegte Property**

<b>Scientific Name</b>	<b>Common Name</b>	<b>Habitat</b>
<i>Ambrosia psilostachya</i>	ragweed	SCLORF, NNG
<i>Artemisia californica</i>	California sage brush	CLOW
<i>Arundo donax</i>	giant reed	NNV
<i>Avena</i> sp.	wild oats	NNG
<i>Baccharis pilularis</i>	coyote brush	SCLORF
<i>Baccharis salicifolia</i>	mulefat	NNG
<i>Baccharis sarathroides</i>	broom baccharis	NNG
<i>Bromus diandrus</i>	ripgut grass	NNG
<i>Bromus hordeaceus</i>	soft chess	NNG
<i>Bromus madritensis</i>	foxtail chess	NNG
<i>Carduus pycnocephalus</i>	Italian thistle	CLOW
<i>Centaurea melitensis</i>	tocolote	NNG
<i>Citrus limon</i>	lemons	NNG
<i>Cynodon dactylon</i>	Bermuda grass	NNG
<i>Datura wrightii</i>	nightshade	SCLORF
<i>Eriogonum fasciculatum</i>	California buckwheat	NNG
<i>Erodium cicutarium</i>	filaree	NNG
<i>Eucalyptus</i> sp.	eucalyptus	SCLORF, NNV
<i>Euphorbia</i> sp. (ornamental)		SCLORF
<i>Heteromeles arbutifolia</i>	toyon	CLOW, SCLORF
<i>Hirschfeldia incana</i>	short pod mustard	NNG
<i>Macademia</i> sp.	macademia	SCLORF
<i>Malosma laurina</i>	laurel sumac	SCLORF
<i>Marrubium vulgare</i>	horehound	NNG
<i>Mesembryanthemum crystallinum</i>	ice plant	NNG, SCLORF
<i>Mimulus aurantiacus</i>	monkeyflower	CLOW
<i>Nicotiana glauca</i>	tree tobacco	SCLORF
<i>Olea europaea</i>	olive	SCLORF
<i>Oxalis</i> sp.	wood sorrel	SCLORF
<i>Platanus racemosa</i>	sycamore	SCLORF
<i>Quercus agrifolia</i>	coast live oak	SCLORF, CLOW, CLOW
<i>Quercus berberidifolia</i>	scrub oak	NNG
<i>Rhamnus ilicifolia</i>	coffeeberry	SCLORF, CLOW, NNG
<i>Salvia mellifera</i>	black sage	NNG
<i>Salix lasiolepis</i>	arroyo willow	SCLORF
<i>Salsola tragus</i>	Russian thistle	NNG
<i>Salvia gooddingii</i>	black willow	SCLORF
<i>Schinus molle</i>	California pepper	NNG
<i>Toxicodendron diversilobum</i>	poison oak	SCLORF
<i>Vicia</i> sp.	vetch	NNG
<i>Washingtonia palmeri</i>	Mexican fan palm	SCLORF

SCLORF=southern coast live oak riparian forest

NNG=non-native grassland

NNV=non-native vegetation

CLOW=coast live oak woodland

**Appendix B**  
**List of Wildlife Species Observed on the Van de Vegte Property**

**MAMMALS**

Scientific Name	Common Name	Habitat
<i>Canis latrans</i>	coyote	NNG
<i>Mephitis mephitis</i>	striped skunk	SLCORF
<i>Mus musculus</i>	house mouse	NNG
<i>Spermophilus beecheyi</i>	California ground squirrel	NNG
<i>Sylvilagus audubonii</i>	desert cottontail	NNG

**BIRDS**

Scientific Name	Common Name	Habitat
<b><i>Accipiter cooperi</i></b>	<b>Cooper's hawk</b>	<b>SCLORF</b>
<i>Aphelocoma coerulescens</i>	western scrub jay	SCLORF
<i>Archilochus anna</i>	Anna's hummingbird	SCLORF
<b><i>Buteo lineatus</i></b>	<b>red-shouldered hawk</b>	<b>SCLORF</b>
<i>Carpodacus mexicanus</i>	house finch	SCLORF
<i>Cauduelis psaltrina</i>	lesser goldfinch	NNG
<i>Corvus corax</i>	common raven	NNG
<i>Euphagus cyanocephalus</i>	Brewer's blackbird	NNG
<i>Melanerpes formicivorus</i>	acorn woodpecker	SLCORF
<i>Pipilo crissalis</i>	California towhee	SCLORF, CLOW
<i>Pipilo erythrophthalmus</i>	spotted towhee	SCLORF
<i>Psaltiriparus minimus</i>	bushtit	SCLORF
<b><i>Sialia mexicana</i></b>	<b>western blue bird</b>	<b>NNG</b>
<i>Sturnella neglecta</i>	western meadowlark	NNG
<i>Toxostoma redivivum</i>	California thrasher	SCLORF
<i>Troglodytes aedon</i>	house wren	SCLROF

**REPTILES**

Scientific Name	Common Name	Habitat
<i>Eumeces skiltonianus</i>	western skink	SCLORF
<i>Gerrhonotus multicarinatus</i>	southern alligator lizard	SCLORF
<i>Sceloporus occidentalis</i>	western fence lizard	NNG
<i>Uta stansburiana</i>	side-blotched lizard	CLOW

SCLORF=southern coast live oak riparian forest

CLOW=coast live oak woodland

NNG=non-native grassland

# Appendix C

## Sensitive Species with the Potential to Occur on the Van de Vegte Property

Plant	Animal	Latin Name	Common Name	Federally Endangered	Federally Threatened	State Endangered	State Threatened	State Rare	County Sensitive	Species Listed	Low Confidence	Grassland	Riparian	Oak Woodland	Extensive Agriculture	Potential to Occur
X		<i>Brodiaea orcuttii</i>	Orcutt's brodiaea						A			X	X	X		L
X		<i>Clarkia delicata</i>	Campo clarkia						A					X		L
X		<i>Harpagonella palmeri</i>	Palmer's grappling hook						D			X				L
X		<i>Juncus acutus leopoldii</i>	Southwestern spiny rush						D				X	X		M
X		<i>Ophioglossum californicum</i>	California adder's tongue fern						D			X				L
X		<i>Piperia leptopetala</i>	Narrow-petaled rein orchid						D					X		L
X		<i>Quercus engelmannii</i>	Engelmann oak						D				X	X		L
	X	<i>Accipiter cooperi</i>	Cooper's hawk						1			X	X	X		P
	X	<i>Accipiter striatus</i>	Sharp-shinned hawk						1				X	X		M
	X	<i>Ammodramus savannarum</i>	Grasshopper sparrow						1			X				L
	X	<i>Anniella pulchra pulchra</i>	Silvery legless lizard						2			X	X			M
	X	<i>Antrozous pallidus</i>	Pallid bat						2			X	X	X		L
	X	<i>Aquila chrysaetos</i>	Golden eagle						1	X		X		X		L
	X	<i>Ardea herodias</i>	Great blue heron						2			X		X		L
	X	<i>Bassariscus astutus</i>	Ringtail						2				X	X		L
	X	<i>Bufo microscaphus californicus</i>	Arroyo toad	X					1	X			X			L
	X	<i>Buteo lineatus</i>	Red-shouldered hawk						1				X	X		P
	X	<i>Cathartes aura</i>	Turkey vulture						1			X	X	X		M
	X	<i>Chaetodipus californicus femoralis</i>	Dulzura California pocket mouse						2			X		X		L
	X	<i>Chaetodipus fallax fallax</i>	Northwestern San Diego pocket mouse						2			X				L
	X	<i>Charina trivirgata roseofusca</i>	Coastal rosy boa						2					X		L
	X	<i>Circus cyaneus hudsonius</i>	Northern harrier						1			X			X	L
	X	<i>Clemmys marmorata pallida</i>	Southwestern pond turtle						1	X			X			L
	X	<i>Cnemidophorus hyperythrus</i>	Orange-throated whiptail						2			X	X			L
	X	<i>Cnemidophorus tigris multiscutatus</i>	Coastal western whiptail						2				X	X		L-M
	X	<i>Coleonyx variegatus abbottii</i>	San Diego banded gecko						1			X				L

**Appendix C**  
**Sensitive Species with the Potential to Occur on the Van de Vegte Property**

Plant	Animal	Latin Name	Common Name	Federally Endangered	Federally Threatened	State Endangered	State Threatened	State Rare	County Sensitive	Species Listed	Low Confidence	Grassland	Riparian	Oak Woodland	Extensive Agriculture	Potential to Occur
	X	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat						2			X	X	X		L
	X	<i>Danaus plexippus</i>	Monarch butterfly						2			X		X		M
	X	<i>Dendroica petechia brewsteri</i>	Yellow warbler						2				X			L-M
	X	<i>Diadophis punctatus similis</i>	San Diego ringneck snake						2				X	X		L
	X	<i>Dipodomys stephensi</i>	Stephen's kangaroo rat	X			X		1	X		X				L-M
	X	<i>Elanus caeruleus</i>	Black-shouldered kite						1			X	X			L
	X	<i>Empidonax trailii extimus</i>	Southwestern willow flycatcher						2							L
	X	<i>Eremophila alpestris actis</i>	Horned lark	X					1	X			X			L
	X	<i>Euderma maculatum</i>	Spotted bat						2			X				L
	X	<i>Eumops perotis californicus</i>	Greater western mastiff bat						2		X	X	X	X		L
	X	<i>Falco mexicanus</i>	Prairie falcon						1			X				L
	X	<i>Felis concolor</i>	Mountain lion						2				X	X		L
	X	<i>Ictera virens</i>	Yellow-breasted chat						1				X			L-M
	X	<i>Lanius ludovicianus</i>	Loggerhead shrike						1			X	X	X		L
	X	<i>Larus californicus</i>	California gull (Non-breeding)						2			X				L
	X	<i>Lasiurus blossevillii</i>	Western red bat						2				X	X		L-M
	X	<i>Lepus californicus bennettii</i>	San Diego black-tailed jackrabbit						2			X		X		L
	X	<i>Macrotus californicus</i>	California leaf-nosed bat						2				X	X		L
	X	<i>Myotis ciliolabrum</i>	Small-footed myotis						2				X			L
	X	<i>Myotis yumanensis</i>	Yuma myotis						2		X		X	X		L
	X	<i>Neotoma lepida intermedia</i>	San Diego desert woodrat						2			X	X	X		L-M
	X	<i>Nyctinomops macrotis</i>	Big free-tailed bat						2				X	X		L
	X	<i>Nyctinomops femorosaccus</i>	Pocketed free-tailed bat						2			X	X	X		L
	X	<i>Odocoileus hemionus</i>	Southern mule deer						2			X	X	X		L
	X	<i>Onychomys torridus ramona</i>	Southern grasshopper mouse						2			X	X	X		L
	X	<i>Perognathus longimembris brevinasus</i>	Los Angeles little pocket mouse						2			X				L
	X	<i>Phrynosoma coronatum blainvillei</i>	San Diego horned lizard						2			X				L



### Appendix C

#### Sensitive Species with the Potential to Occur on the Van de Vegte Property

Plant	Animal	Latin Name	Common Name	Federally Endangered	Federally Threatened	State Endangered	State Threatened	State Rare	County Sensitive	Species Listed	Low Confidence	Grassland	Riparian	Oak Woodland	Extensive Agriculture	Potential to Occur
	X	<i>Rana aurora draytoni</i>	California red-legged frog		X				1	X			X			L
	X	<i>Scaphiopus hammondi</i>	Western spadefoot toad						2			X	X	X		L
	X	<i>Sialia mexicana</i>	Western bluebird						2				X	X		P
	X	<i>Taxidea taxus</i>	American badger						2			X		X		L
	X	<i>Thamnophis hammondi</i>	Two stripe garter snake						1				X			M
	X	<i>Thamnophis sirtalis novum</i>	South Coast garter snake						2				X			L
	X	<i>Tyto alba</i>	Common barn-owl						2				X	X		M
	X	<i>Vireo bellii pusillus</i>	Least Bell's vireo	X		X			1	X			X			L

**P** =Present, species was observed on site.

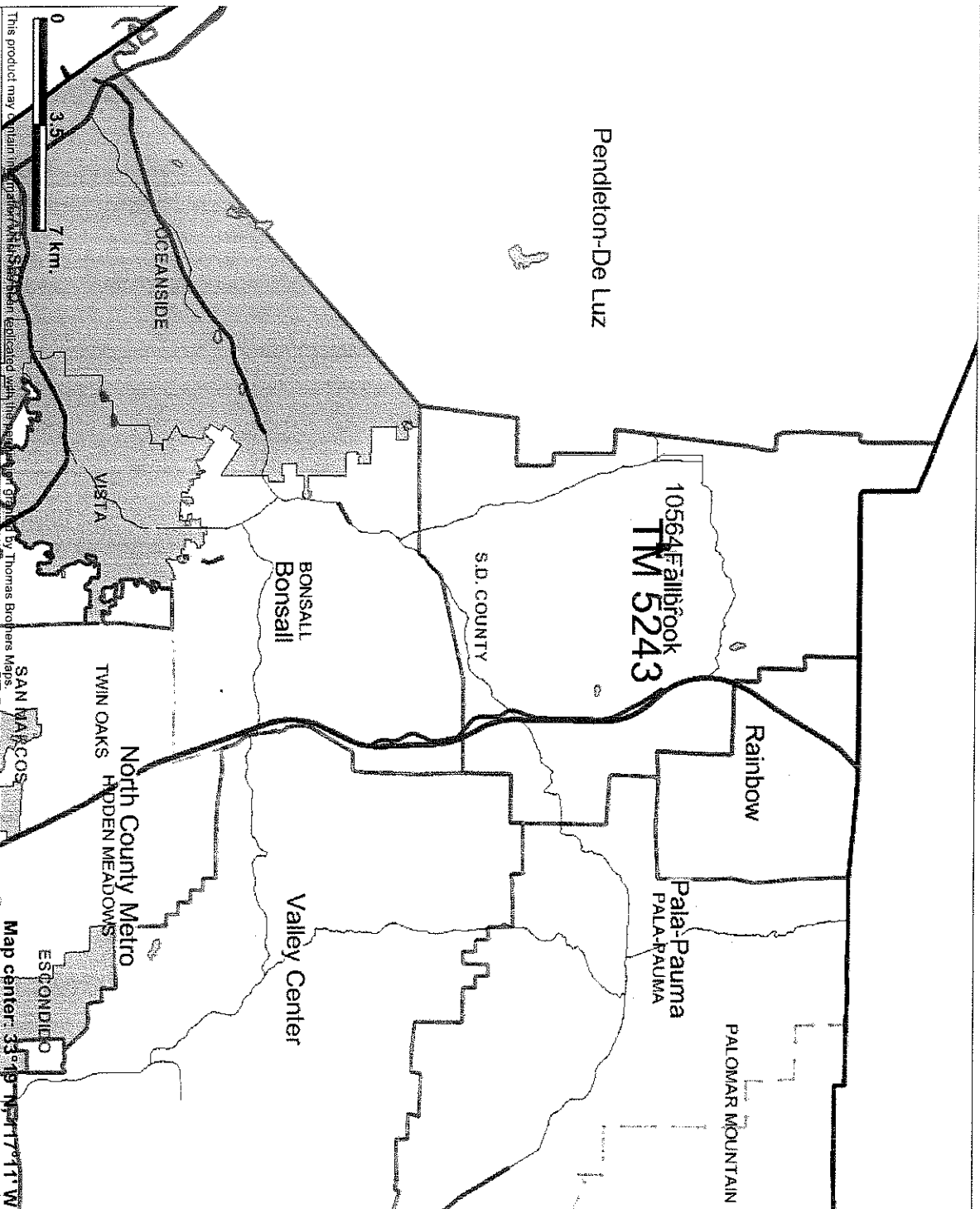
**H** =Species has a high potential to occur on site because the habitat is suitable to support this species and/or this species has historically been observed on site or within like-functioning habitat within the vicinity.

**M** =Species has a moderate potential to occur on site because the habitat may support this species, however it was not historically observed on site, within the vicinity, or the species (plant ) would have been observed.

**L** =Species has a low potential to occur on site because the species would have been observed during the site surveys, the species is rare or extirpated from the area and/or the habitat and/or surrounding area is unsuitable.

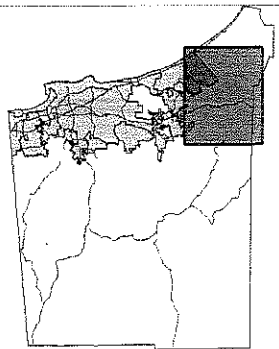


# TM 5243 - Figure 1 Regional Map



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This product may contain information from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG.

This product may contain information derived from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG.



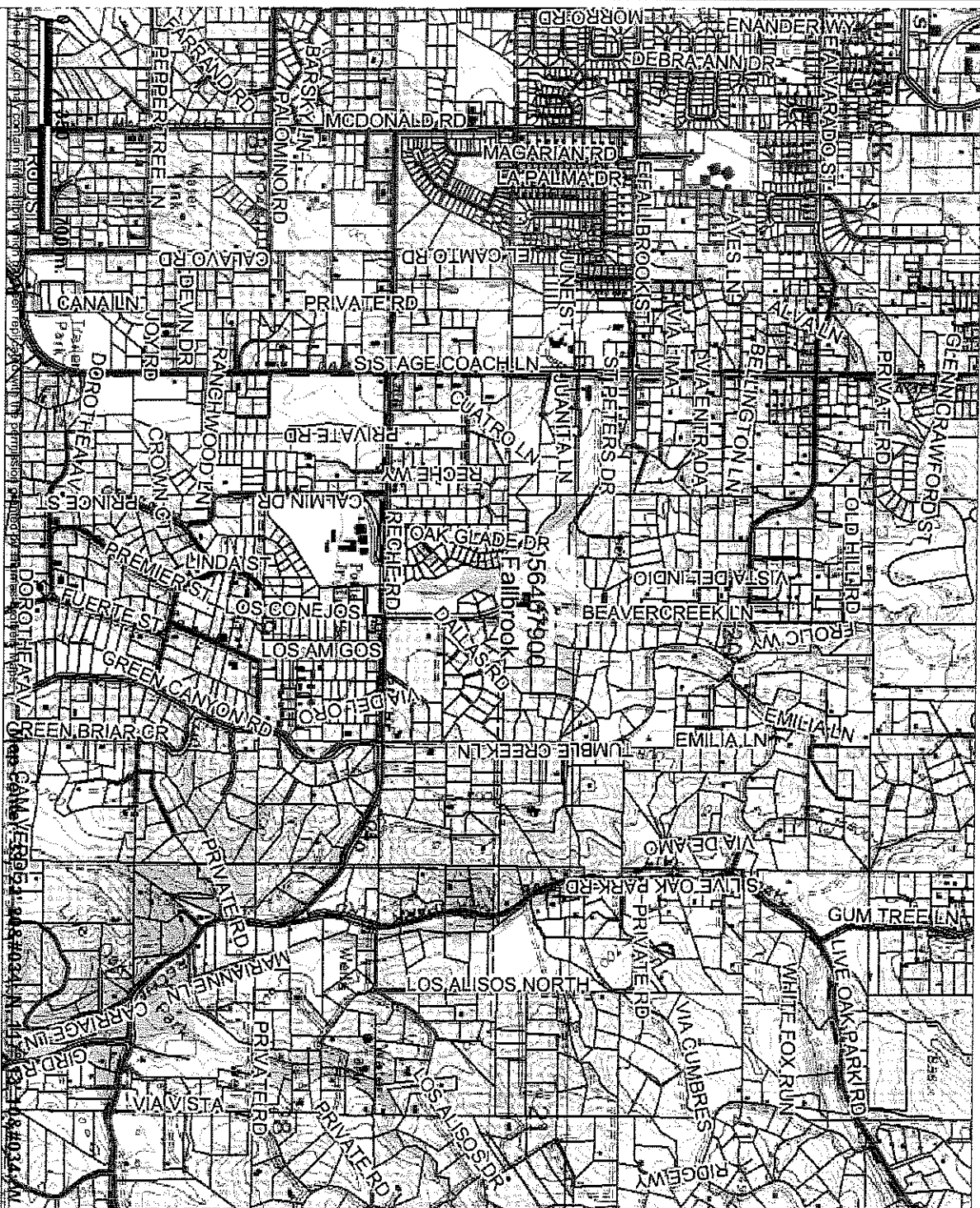
- ### Legend
- Highways
  - Freeways
  - Water Bodies
  - Water Bodies
  - Sponsor Groups
  - Sponsor Groups
  - Other
  - Community Planning Area
  - Community Planning Areas
  - Incorporated Areas
  - S.D. COUNTY
  - Other

Scale: 1:199,028

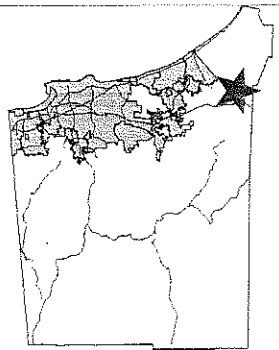




TM 5243 - Figure 2 Vicinity Map



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This product may contain information from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG.



- Legend**
- ☐ Parcels with out labels
  - ☐ Highways
  - ☐ Freeways
  - ☐ Streets
  - ☐ Water Bodies
  - ☐ Water Bodies
  - ☐ Sponsor Groups
  - ☐ Sponsor Groups
  - ☐ Other
  - ☐ Community Planning Area
  - ☐ Community Planning Areas
  - ☐ USGS 7.5 Min Topo Quad

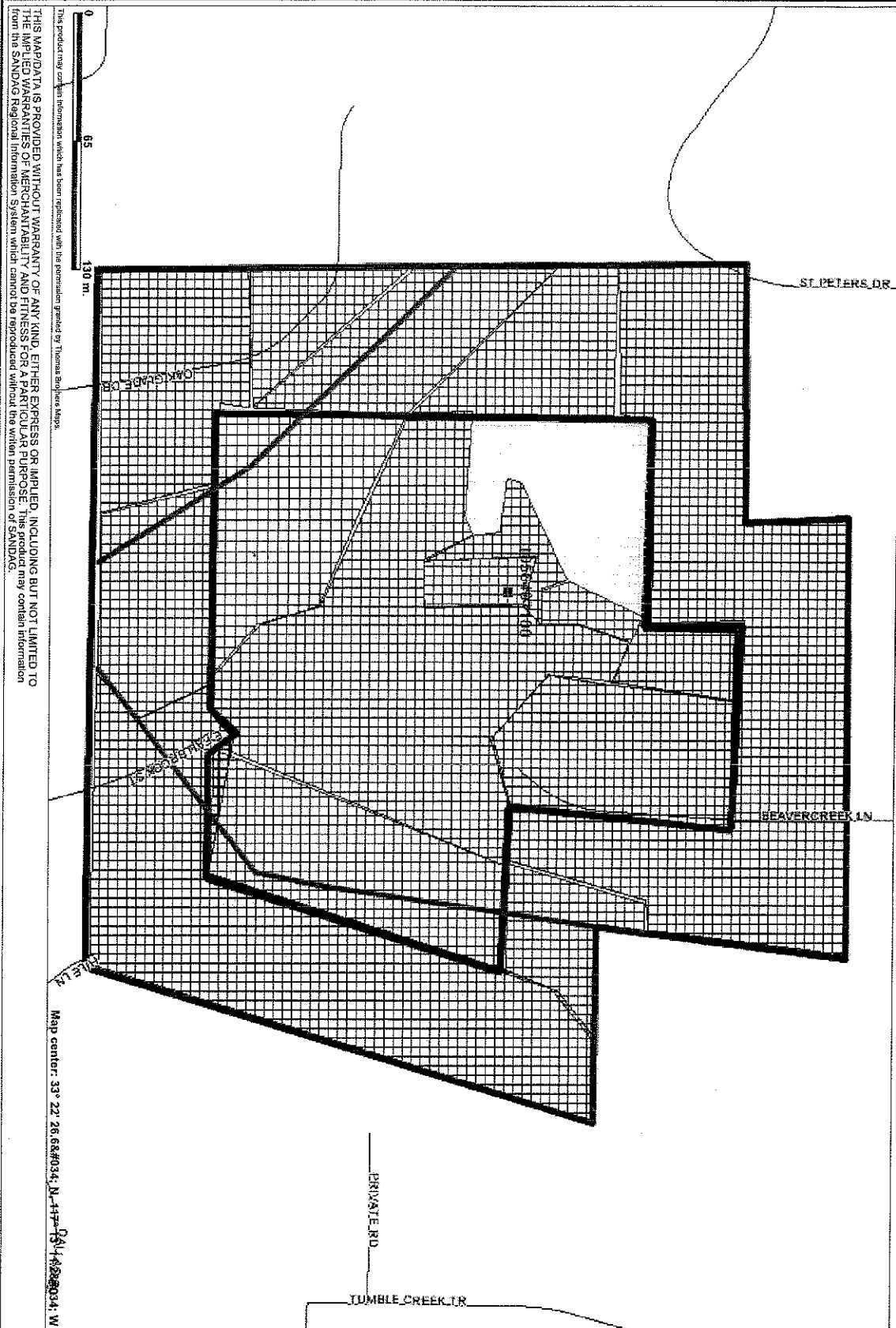


Scale: 1:19,903



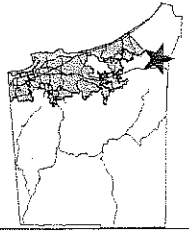


TM 5243 - Figure 3 Biological Resources Map



THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The data may contain information from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG.

Map center: 33° 22' 26.68#034; N-44° 13' 14.62#034; W



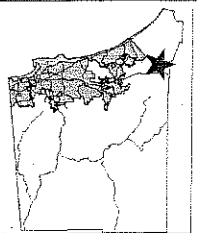
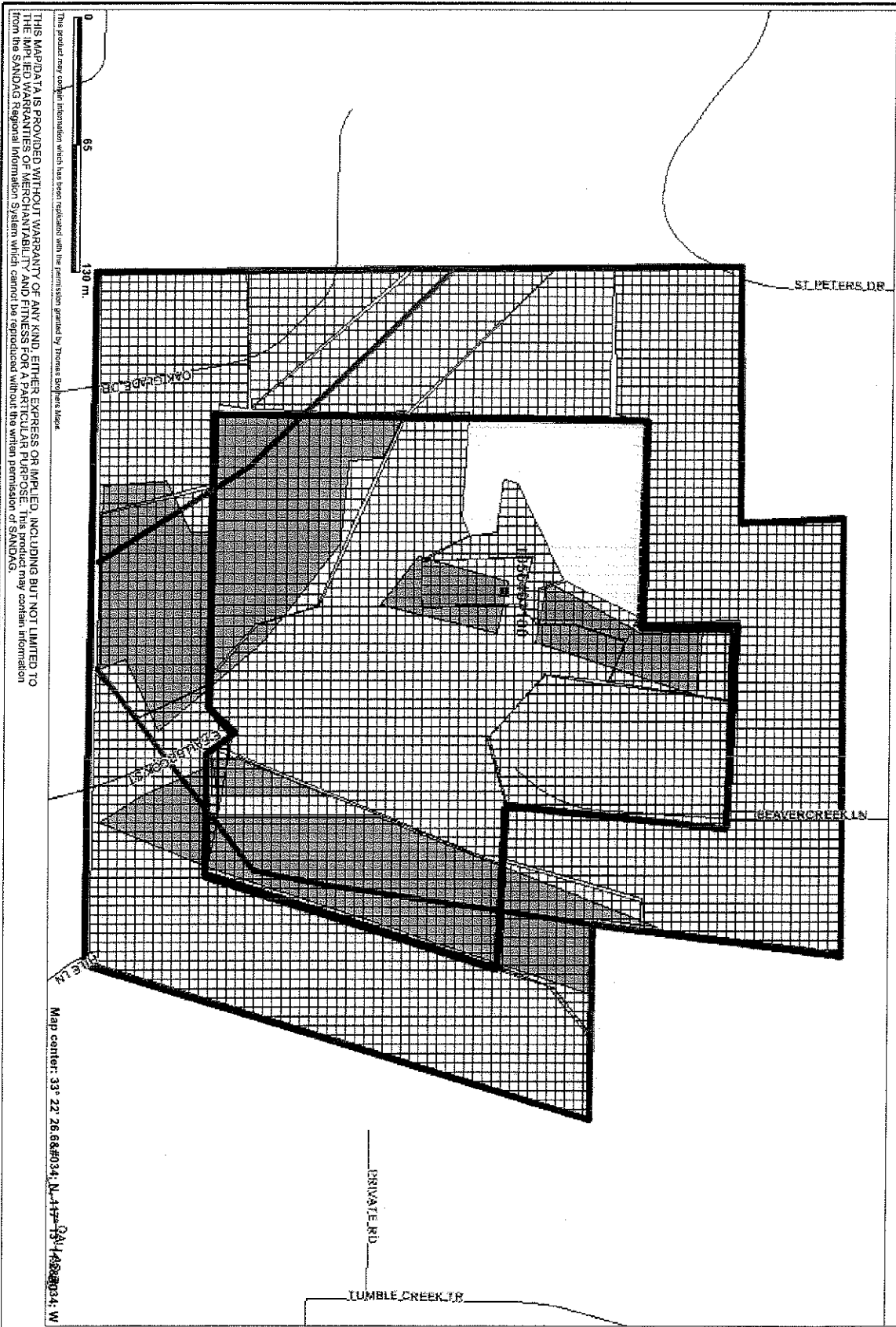
Legend  
 Highways  
 Streets

Scale: 1:1,905





TM 5243 - Figure 4 Existing Open Space per Map 18202 to remain



**Legend**  
 Highways  
 Streets

Scale: 1:1,905  
 DPLU GIS  
 Map center: 33° 22' 26.68#34, N, 117° 13' 14.82#34, W



REVISED

# TM 5243 - Figure 5 Open Space Exhibit

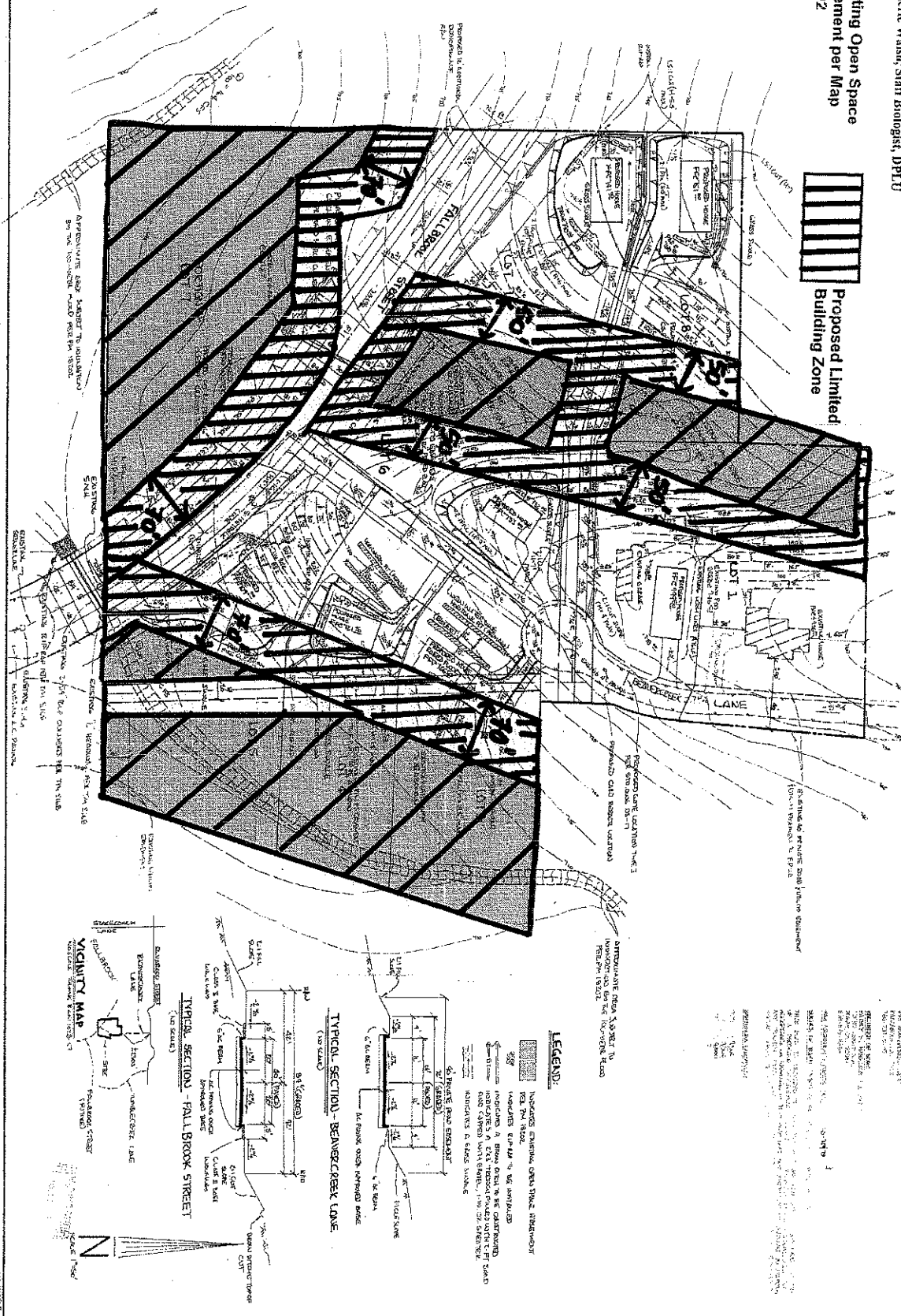
November 7, 2008, Valerie Walsh, Staff Biologist, DPRU



Existing Open Space  
Easement per Map  
18202



Proposed Limited  
Building Zone



## LEGEND

- INDICATES EXISTING OPEN SPACE EASEMENT
- INDICATES PROPOSED LIMITED BUILDING ZONE
- INDICATES A 100' BUFFER ZONE
- INDICATES A 50' BUFFER ZONE
- INDICATES A 25' BUFFER ZONE
- INDICATES A 10' BUFFER ZONE
- INDICATES A 5' BUFFER ZONE
- INDICATES A 2' BUFFER ZONE
- INDICATES A 1' BUFFER ZONE
- INDICATES A 0.5' BUFFER ZONE
- INDICATES A 0.25' BUFFER ZONE
- INDICATES A 0.125' BUFFER ZONE
- INDICATES A 0.0625' BUFFER ZONE
- INDICATES A 0.03125' BUFFER ZONE
- INDICATES A 0.015625' BUFFER ZONE
- INDICATES A 0.0078125' BUFFER ZONE
- INDICATES A 0.00390625' BUFFER ZONE
- INDICATES A 0.001953125' BUFFER ZONE
- INDICATES A 0.0009765625' BUFFER ZONE
- INDICATES A 0.00048828125' BUFFER ZONE
- INDICATES A 0.000244140625' BUFFER ZONE
- INDICATES A 0.0001220703125' BUFFER ZONE
- INDICATES A 0.00006103515625' BUFFER ZONE
- INDICATES A 0.000030517578125' BUFFER ZONE
- INDICATES A 0.0000152587890625' BUFFER ZONE
- INDICATES A 0.00000762939453125' BUFFER ZONE
- INDICATES A 0.000003814697265625' BUFFER ZONE
- INDICATES A 0.0000019073486328125' BUFFER ZONE
- INDICATES A 0.00000095367431640625' BUFFER ZONE
- INDICATES A 0.000000476837158203125' BUFFER ZONE
- INDICATES A 0.0000002384185791015625' BUFFER ZONE
- INDICATES A 0.00000011920928955078125' BUFFER ZONE
- INDICATES A 0.000000059604644775390625' BUFFER ZONE
- INDICATES A 0.0000000298023223876953125' BUFFER ZONE
- INDICATES A 0.00000001490116119384765625' BUFFER ZONE
- INDICATES A 0.000000007450580596923828125' BUFFER ZONE
- INDICATES A 0.0000000037252902984619140625' BUFFER ZONE
- INDICATES A 0.00000000186264514923095703125' BUFFER ZONE
- INDICATES A 0.000000000931322574615478515625' BUFFER ZONE
- INDICATES A 0.0000000004656612873077392578125' BUFFER ZONE
- INDICATES A 0.00000000023283064365386962890625' BUFFER ZONE
- INDICATES A 0.000000000116415321826934814453125' BUFFER ZONE
- INDICATES A 0.0000000000582076609134674072265625' BUFFER ZONE
- INDICATES A 0.00000000002910383045673370361328125' BUFFER ZONE
- INDICATES A 0.000000000014551915228366851806640625' BUFFER ZONE
- INDICATES A 0.0000000000072759576141834259033203125' BUFFER ZONE
- INDICATES A 0.00000000000363797880709171295166015625' BUFFER ZONE
- INDICATES A 0.000000000001818989403545856475830078125' BUFFER ZONE
- INDICATES A 0.0000000000009094947017729282379150390625' BUFFER ZONE
- INDICATES A 0.00000000000045474735088646141895751953125' BUFFER ZONE
- INDICATES A 0.000000000000227373675443230709478759765625' BUFFER ZONE
- INDICATES A 0.0000000000001136868377216153547393798828125' BUFFER ZONE
- INDICATES A 0.00000000000005684341886080767736968994140625' BUFFER ZONE
- INDICATES A 0.000000000000028421709430403838684844970703125' BUFFER ZONE
- INDICATES A 0.0000000000000142108547152019193424224853515625' BUFFER ZONE
- INDICATES A 0.00000000000000710542735760095967121124266796875' BUFFER ZONE
- INDICATES A 0.00000000000000355271367880047983560562133489375' BUFFER ZONE
- INDICATES A 0.000000000000001776356839400239917802810667446875' BUFFER ZONE
- INDICATES A 0.0000000000000008881784197001199589014053337234375' BUFFER ZONE
- INDICATES A 0.00000000000000044408920985005997945070266686171875' BUFFER ZONE
- INDICATES A 0.000000000000000222044604925029989725351333430859375' BUFFER ZONE
- INDICATES A 0.0000000000000001110223024625149948626756667154296875' BUFFER ZONE
- INDICATES A 0.00000000000000005551115123125749743133783335771234375' BUFFER ZONE
- INDICATES A 0.000000000000000027755575615628748715668916678856171875' BUFFER ZONE
- INDICATES A 0.0000000000000000138777878078143743578344583394280859375' BUFFER ZONE
- INDICATES A 0.000000000000000006938893903907187178917229166971404296875' BUFFER ZONE
- INDICATES A 0.0000000000000000034694469519535935894586145834857021484375' BUFFER ZONE
- INDICATES A 0.00000000000000000173472347597679679472930729174285107421875' BUFFER ZONE
- INDICATES A 0.000000000000000000867361737988398397364653645871425537109375' BUFFER ZONE
- INDICATES A 0.0000000000000000004336808689941991986823268229357127685546875' BUFFER ZONE
- INDICATES A 0.00000000000000000021684043449709959934116341146785638427734375' BUFFER ZONE
- INDICATES A 0.000000000000000000108420217248549799670581705733928192138671875' BUFFER ZONE
- INDICATES A 0.0000000000000000000542101086242748998352908528669640960693359375' BUFFER ZONE
- INDICATES A 0.00000000000000000002710505431213744991764542643348204803466796875' BUFFER ZONE
- INDICATES A 0.000000000000000000013552527156068724958822713216741024017333984375' BUFFER ZONE
- INDICATES A 0.0000000000000000000067762635780343624794113566083705120086669921875' BUFFER ZONE
- INDICATES A 0.00000000000000000000338813178901718123970567830418525600433349609375' BUFFER ZONE
- INDICATES A 0.000000000000000000001694065894508590619852839152092628002166748046875' BUFFER ZONE
- INDICATES A 0.0000000000000000000008470329472542953099264195760463140010833740234375' BUFFER ZONE
- INDICATES A 0.00000000000000000000042351647362714765496320978802315700054168701171875' BUFFER ZONE
- INDICATES A 0.000000000000000000000211758236813573827481604894011578500270843505859375' BUFFER ZONE
- INDICATES A 0.0000000000000000000001058791184067869137408024470057892501354217529296875' BUFFER ZONE
- INDICATES A 0.00000000000000000000005293955920339345687040122350289462506771087646484375' BUFFER ZONE
- INDICATES A 0.000000000000000000000026469779601696728435200611751447312533855438232421875' BUFFER ZONE
- INDICATES A 0.0000000000000000000000132348898008483642176003058757236562669271911162109375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000066174449004241821088001529378618281334635955581046875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000330872245021209105440007646893091406671779777905234375' BUFFER ZONE
- INDICATES A 0.000000000000000000000001654361225106045527200038234465457033858898889526171875' BUFFER ZONE
- INDICATES A 0.0000000000000000000000008271806125530227636000191172327285169294494447630859375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000041359030627651138180000955861636425846472472238154296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000206795153138255690900004779308182129232361161190771484375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000001033975765691278454500023896540910646111805555953859375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000005169878828456392272500119482704553230559027779769296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000025849394142281961362500597413522766152795138898846484375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000129246970711409806812502987067613830797975694494234421875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000646234853557049034062514935337989878479378472471172109375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000032311742677852451703125746766894948923623593623555953859375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000161558713389262258515628833834474744618117968117779769296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000807793566946311292578144169172373723090589840588898846484375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000004038967834731556462890720845861868615452949202944494234421875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000020194839173657782314453604229309343077014746014722471172109375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000001009741958682889115722680211465467173850737300736123555953859375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000005048709793414445578613401057327335869253686503680617779769296875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000002524354896707222789306700528663667934621843251840308889846484375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000126217744835361139465335026433183396731092162592015444494234421875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000631088724176805697326675013216591683655460812960077222471172109375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000031554436208840284866333750660829584277773040648003861123555953859375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000157772181044201424331668753030414791688865203240019305617779769296875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000078886090522100712216584376515207395844432601620009652808889846484375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000003944304526105035610829218757610369792221630081000482640444494234421875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000019721522630525178054146093788051848961108150405002413202222471172109375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000098607613152625890270730468944029244805540752025012066111123555953859375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000049303806576312945013536234472014622402770376012506033055617779769296875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000002465190328815647250676811723600731120138518800625301652778889846484375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000000123259516440782362533840586180036556006925940031265082638944494234421875' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000616297582203911812669202930900182780034629700156325413194722471172109375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000000030814879110195590633460146545009139001731485007816270659736123555953859375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000154074395550977953167300732725004559508657425039081352986805617779769296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000770371977754889765833653663625022797543287125195406764934028889846484375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000038518598887744488291682683181251139877164356259770338246701444494234421875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000192592994438722441458413415906255698885821781259885167335007222471172109375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000009629649721936122072920670795312784944291089062599425836750036123555953859375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000048148248609680610364603353976563924721455445312997129183750180617779769296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000024074124304840305182301676988281962360727722656498564591875090308889846484375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000001203706215242015259115083849414098118036386132824928229593754516544494234421875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000006018531076210076295575419247070490590181930664124641147968772582722471172109375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000000300926553810503814778770962353524529509096533206232057398438628889846484375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000001504632769052519073893854811767622647545482666031160286992193055953859375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000752316384526259536944692905883811323772741333015580143496096527779769296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000376158192263129768472346452941905661886363716650790071748048263889846484375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000188079096131564884236173226470952830943181882503950035874024131944494234421875' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000000000000940395480657824421180866132354764154715909412501975017870120659722471172109375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000047019774032891221059043306617738207735795470625098750893506032986123555953859375' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000000000000235098870164456105295216533088691038678977353125048754467530151493117779769296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000011754943508222805264760826654434551933948867656250243723376507574658889846484375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000000000587747175411140263238041332721727596697443382812501218616825037732944494234421875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000002938735877055701316190206663608637983487216914062500609334125188664722471172109375' BUFFER ZONE
- INDICATES A 0.00000000000000000000000000000000000000146936793852785065809510333318041991694360845703125003046706259443441123555953859375' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000000734683969263925329047551666590209958471804235656250015233531297221720617779769296875' BUFFER ZONE
- INDICATES A 0.000000000000000000000000000000000000000367341984631962664523775833295104979235902117828125000761676648610860311779769296875' BUFFER ZONE
- INDICATES A 0.0000000000000000000000000000000000000001836709923159813322618879166475524896179510558914062500038083382430301558889846484375' BUFFER ZONE
- INDICATES A 0.0091835496157990666130943958322377644808975527945703125000190416912151527944494234421875' BUFFER ZONE
- INDICATES A 0.00459177480789953330654719791611888224044877639728565625000095208456075789722471172109375' BUFFER ZONE
- INDICATES A 0.0022958874039497666532735989580594411202243881986428281250000476042280378986123555953859375' BUFFER ZONE
- INDICATES A 0.0011479437019748833266367994790297205601121940993214140625000023802114018948311779769296875' BUFFER ZONE
- INDICATES A 0.0005739718509874416633183997395148602800560970496607031250000119010570094741558889846484375' BUFFER ZONE
- INDICATES A 0.0002869859254937208316591998697574301400280485248303515625000005950528504737077944494234421875' BUFFER ZONE
- INDICATES A 0.0001434929627468604158295999348787150700140242624151757812500000297526425236853889846484375' BUFFER ZONE
- INDICATES A 0.00717464813



# TM 5243 - Figure 6 Open Space Fencing and Signage Exhibit

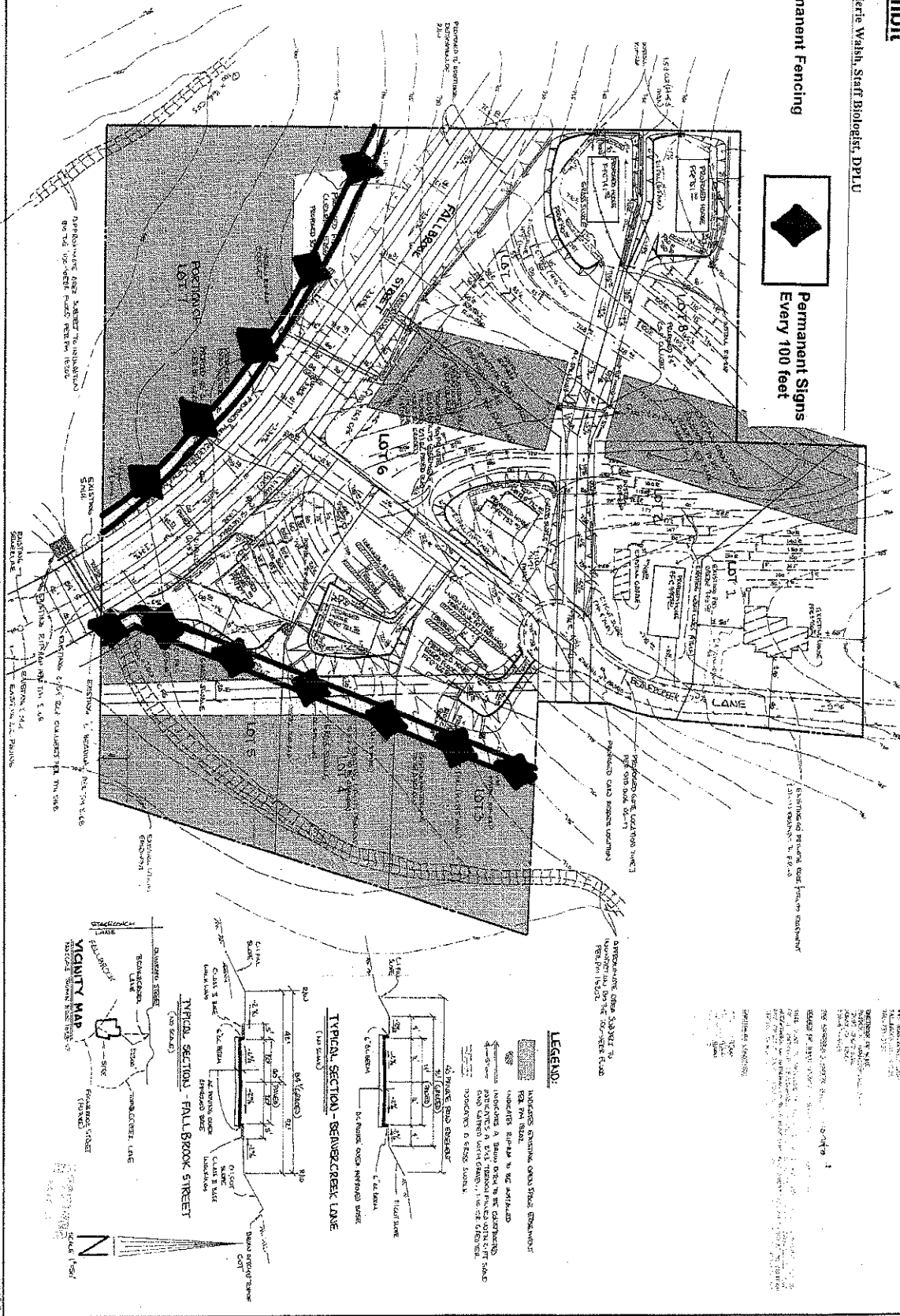
November 7, 2008, Valerie Walsh, Staff Biologist, DPLU



Permanent Fencing



Permanent Signs  
Every 100 feet



## LEGEND:

- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN AS Hatched)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN AS Dotted)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN AS Stippled)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Blank)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Cross-hatched)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Diagonal Lines)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Wavy Lines)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Zig-zag Lines)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Random Dots)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Circles)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Squares)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Triangles)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Hexagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Octagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Decagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Dodecagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Hexadecagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Octadecagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Eicosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Triacosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Tetracontagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Pentacosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Hexacosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Heptacosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Octacosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Enneacosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Hecacosagons)
- UNDESIRABLE EXISTING GRASSY FIELD (SHOWN As Concentric Myriacosagons)

## TYPICAL SECTION - BRIM CREEK LANE

## TYPICAL SECTION - FALL BROOK STREET

